

**Thomas G. Robinson**  
*Deputy General Counsel*

October 24, 2005

**VIA HAND DELIVERY & ELECTRONIC MAIL**

Luly E. Massaro, Commission Clerk  
Rhode Island Public Utilities Commission  
89 Jefferson Boulevard  
Warwick, RI 02888

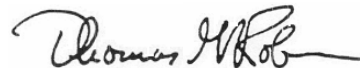
**RE: Docket 3628 – The Narragansett Electric Company’s Service Quality Plan  
Feeder Ranking Report – 3rd Quarter 2005**

Dear Ms. Massaro:

In accordance with the Additional Reporting Criteria, Item 1, of The Narragansett Electric Company’s d/b/a National Grid (“Company”) Service Quality Plan effective January 1, 2005, enclosed please find ten (10) copies of the Company’s Feeder Ranking Report for the third quarter of 2005.

Thank you for your attention to this filing. Please feel free to contact me if you have any questions at (508) 389-2877.

Very truly yours,



Thomas G. Robinson

Enclosures

cc: Docket 3628 Service List  
Paul Roberti, Esq.  
Steve Scialabba, Division

**Narragansett Electric Company**  
Feeder Rankings  
3rd Quarter: July 2005 - September 2005

Rank	Feeder	Freq.	Cities/Towns Served	No. of Customers	No of Events	Average Duration	Total Customer Mins.	Causes	Corrective Actions
1	69F3	4.30	PROVIDENCE	6524	6	283.87	1851984	Feeder Lockout-Weather Related-Lightning	Circuit Was Patrolled and Restored to Normal Operation
								Protective Relay Failure	Failed Equipment Was Isolated and Circuit Restored to Normal Operation
								Feeder Breaker Failure	Failed Equipment Was Isolated and Circuit Restored to Normal Operation
								Fuse Cutout(s) Failure	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Fuse Cutout Failure	Fuse Cutout Was Replaced
2	69F1	3.37	PROVIDENCE NORTH PROVIDENCE JOHNSTON	3535	9	351.60	1242905	Operator Error During Testing	Corrections Made and Circuit Restored to Normal Operation
								Tree Limb Contacted Primary	Line Fuses Replaced
								Bird	Line Fuse Replaced
								Feeder Breaker Failure	Failed Equipment Was Isolated and Circuit Restored to Normal Operation
								Switching	Switching Was Completed and Circuit Restore to Normal Operation
								Bird	Line Fuse Replaced
								Protective Relay Failure	Failed Equipment Was Isolated and Circuit Restored to Normal Operation
								Tree Limb Contacted Primaries	Limb Removed and Circuit Restored to Normal Operation
								Tree Limb Contacted and Damaged Secondaries	Damaged Equipment Was Repaired and Transformer Fuse Replaced
								Tree Limb Contacted Primaries	Limb Removed and Circuit Restored to Normal Operation
3	57J3	3.13	WARWICK	1043	6	291.68	304223	Feeder Lockout-Weather Related-Lightning	Circuit Was Patrolled and Restored to Normal Operation
								Fuse Cutout Failure	Fuse Cutout Was Replaced
								Fuse Link Failure-Weather Related-Loading	Transformer Fuse Replaced
								Feeder Lockout-Temperature and Load Related	Loading Was Reviewed and Circuit Restored to Normal Operation
								Feeder Lockout-Temperature and Load Related	Loading Was Reviewed and Circuit Restored to Normal Operation
								Feeder Balancing	Corrections Made and Circuit Restored to Normal Operation
4	107W53	3.05	PAWTUCKET	827	5	95.90	79307	Bird	Transformer Fuse Replaced
								Crossarm Failure	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Public Safety-Requested By City of Pawtucket	Circuit Was Restored to Normal Operation Following Rescue of Person
								Fuse Link Failure-Weather Related-Loading	Transformer Fuse Replaced
								Vehicle Pole Accident	Transformer Fuse Replaced
5	109J3	3.04	PAWTUCKET	1340	5	104.12	139518	Switching	Corrections Made and Circuit Restored to Normal Operation
								Fuse Link Failure-Weather Related-Loading	Transformer Fuse Replaced
								Public Safety-Requested By City of Pawtucket	Circuit Was Restored to Normal Operation Following Rescue of Person
								Fuse Link Failure-Weather Related-Loading	Transformer Fuse Replaced
								Underground Cable Failure-Substation Supply	Switching Performed to Restore Circuit to Normal Operation
6	109J5	3.03	PAWTUCKET	1669	4	99.58	166197	Switching	Corrections Made and Circuit Restored to Normal Operation
								Public Safety-Requested By City of Pawtucket	Circuit Was Restored to Normal Operation Following Rescue of Person
								Scheduled Transformer Replacement	Transformer Was Replaced
								Underground Cable Failure-Substation Supply	Switching Performed to Restore Circuit to Normal Operation
7	109J1	3.00	PAWTUCKET	546	3	99.00	54054	Switching	Corrections Made and Circuit Restored to Normal Operation
								Public Safety-Requested By City of Pawtucket	Circuit Was Restored to Normal Operation Following Rescue of Person
								Underground Cable Failure-Substation Supply	Switching Performed to Restore Circuit to Normal Operation
8	72F4	2.72	WARWICK	2620	8	216.45	567104	Recloser Lockout-Weather Related	Switching-Closed Shunt Loadbreak Switch
								Fuse Link Failure-Weather Related-Lightning	Transformer Fuse Replaced
								Fuse Link Failure-Weather Related-Lightning	Line Fuse Replaced
								Fuse Link Failure-Weather Related-Lightning	Transformer Fuse Replaced
								Transformer Failure-Lightning	Transformer Failure
								Transformer Failure-Lightning	Transformer Failure
								Tree Limb Contacted Primary	Transformer Fuse Replaced
								Tree Limb Contacted Primary	Line Fuse Replaced
9	17F2	2.50	SOUTH KINGSTOWN NARRAGANSETT	2594	8	177.00	459137	Bird	Circuit Restored to Normal Operation
								Overload	Transformer Fuse Replaced
								Load Balancing	Corrections Made and Circuit Restored to Normal Operation
								Load Balancing	Corrections Made and Circuit Restored to Normal Operation
								Substation Fuse Failure-Weather Related-Lightning	Transformer Fuse Replaced and Circuit Restored to Normal Operation
								Vehicle Pole Accident	Line Fuse Replaced
								Disconnect Switch Failure	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Broken Guy Strand Wire	Transformer Fuse Replaced

**Narragansett Electric Company**  
Feeder Rankings  
3rd Quarter: July 2005 - September 2005

Rank	Feeder	Freq.	Cities/Towns Served	No. of Customers	No of Events	Average Duration	Total Customer Mins.	Causes	Corrective Actions
10	107W60	2.48	PAWTUCKET CENTRAL FALLS	334	5	149.78	50025	Bird Scheduled Transformer Replacement Public Safety-Requested By City of Pawtucket Fuse Link Failure Underground Cable Failure-Substation Supply	Transformer Fuse Replaced Transformer Was Replaced Circuit Was Restored to Normal Operation Following Rescue of Person Transformer Fuse Replaced Switching Performed to Restore Circuit to Normal Operation
11	34F3	2.44	BURRILLVILLE GLOCESTER FOSTER SCITUATE	1132	9	315.73	357411	Squirrel Fuse Cutout Failure Fuse Link Failure-Weather Related-Lightning Fuse Link Failure Tree Limb Contacted and Damaged Primaries Vehicle Pole Accident Fuse Cutout Failure Primary Conductor Failure Tree Limb Contacted Primaries	Animal Guard Installed and Transformer Fuse Replaced Fuse Cutout Was Replaced Transformer Fuse Replaced Transformer Fuse Replaced Damaged Equipment Was Repaired and Circuit Was Restored to Normal Operation Transformer Fuse Replaced Fuse Cutout Was Replaced and Circuit Restored to Normal Operation Damaged Equipment Was Repaired and Circuit Was Restored to Normal Operation Fuse Cutouts and Line Fuses Replaced
12	52F2	2.44	WARWICK	2353	10	162.02	381222	Fuse Cutout Failure Primary Conductor Insulator Failure Primary Conductor Failure-Lightning Primary Conductor Tap Failure-Substation Supply Fuse Cutout Failure Fuse Link Failure-Weather Related-Lightning Fuse Link Failure-Weather Related-Lightning Fuse Link Failure-Weather Related-Lightning Tree Limb Contacted Primaries Tree Limb Contacted Primaries	Fuse Cutout Was Replaced Damaged Equipment Was Repaired and Circuit Was Restored to Normal Operation Damaged Equipment Was Repaired and Circuit Was Restored to Normal Operation Damaged Equipment Was Repaired and Circuit Was Restored to Normal Operation Fuse Cutout Was Replaced Transformer Fuse Replaced Transformer Fuse Replaced Transformer Fuse Replaced Line Fuse Replaced Line Fuses Replaced
13	107W81	2.37	PAWTUCKET	679	7	83.16	56467	Maintenance Maintenance Maintenance Public Safety-Requested By City of Pawtucket Fuse Link Failure-Overload Primary Conductor Insulator Failure Fuse Link Failure	Fuse Cutout Was Replaced Fuse Cutout Was Replaced Fuse Cutout Was Replaced Circuit Was Restored to Normal Operation Following Rescue of Person Transformer Fuse Replaced Insulator and Line Fuse Replaced Transformer Fuse Replaced
14	61F1	2.27	EAST GREENWICH WEST WARWICK WARWICK	286	2	110.94	31730	Underground Cable Failure Fuse Cutout Failed Causing Damage to the Primaries	Damaged Equipment Was Repaired and Circuit Was Restored to Normal Operation Damaged Equipment Was Repaired and Circuit Was Restored to Normal Operation
15	72F3	2.26	CRANSTON	3032	6	220.44	668376	Vehicle Pole Accident Weather Related-Lightning Fuse Cutout Failure Tree Limb Contacted Primary Tree Limb Contacted Primary Fuse Link Failure	Circuit Restored to Normal Operation Circuit Restored to Normal Operation Fuse Cutout Was Replaced Line Fuse Replaced Switching to Make Area Safe, Circuit Restored to Normal Operation Transformer Fuse Replaced
16	54F1	2.17	COVENTRY SCITUATE	3085	18	91.90	283502	Squirrel Customer Contacted Secondday Service Loss of 23Kv Supply Circuit-Lightning Vines Fuse Link Failure-Weather Related-Lightning Tree Limb Contacted Primaries Fuse Cutout Failures Fuse Link Failure-Weather Related-Lightning Fuse Link Failure Fuse Link Failure Fuse Link Failure Customer Contacted UndergroundSecondday Service Tree Limb Contacted Primary Tree Limb Contacted Primary Lightning Arrestor Failure Fuse Cutout Failure Fuse Cutout Failure Loss of 23Kv Supply Circuit-Tree	Transformer Fuse Replaced Transformer Fuse Replaced Performed Switching to Restore Supply to Substation Transformer Fuse Replaced Line Fuse Replaced Line Fuses Replaced Fuse Cutouts Were Replaced Transformer Fuse Replaced Line Fuse Replaced Transformer Fuse Replaced Transformer Fuse Replaced Transformer Fuse Replaced Line Fuse Replaced Line Fuse Replaced Transformer Fuse Replaced Fuse Cutout Was Replaced Fuse Cutout Was Replaced Performed Switching to Restore Supply to Substation

**Narragansett Electric Company**  
Feeder Rankings  
3rd Quarter: July 2005 - September 2005

Rank	Feeder	Freq.	Cities/Towns Served	No. of Customers	No of Events	Average Duration	Total Customer Mins.	Causes	Corrective Actions
17	108W62	2.14	WOONSOCKET NORTH SMITHFIELD	2760	12	141.17	389617	Fuse Link Failure-Weather Related-Lightning	Line Fuse Replaced
								Fuse Link Failure-Weather Related-Lightning	Line Fuse Replaced
								Tree Limb Contacted Primaries	Limb Was Removed and Circuit Was Restored to Normal Operation
								Fuse Link Failure-Weather Related-Lightning	Transformer Fuse Replaced
								Fuse Link Failure-Weather Related-Lightning	Transformer Fuse Replaced
								Fuse Link Failure-Weather Related-Lightning	Transformer Fuse Replaced
								Fuse Link Failure-Weather Related-Lightning	Transformer Fuse Replaced
								Fuse Link Failure-Weather Related-Lightning	Transformer Fuse Replaced
								Fuse Link Failure-Weather Related-Lightning	Transformer Fuse Replaced
								Fuse Link Failure-Weather Related-Lightning	Line Fuses Replaced
								Fuse Cutout Failure	Fuse Cutout Was Replaced
								Tree Limb Contacted Primaries Damaging Conductors and Crossarm	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Fuse Link Failure	Transformer Fuse Replaced
18	23F4	2.13	SMITHFIELD NORTH PROVIDENCE	2437	12	138.76	338166	Feeder Lockout-Weather Related-Lightning	Circuit Was Patrolled and Restored to Normal Operation
								Fuse Link Failure-Weather Related-Lightning	Line Fuse Replaced
								Transformer Lead Failure	Damaged Equipment and Transformer Fuse Replaced
								Tree Limb Contacted Primary	Line Fuse Replaced
								Fuse Link Failure-Weather Related-Lightning	Transformer Fuse Replaced
								Fuse Cutout Failure	Fuse Cutout Was Replaced
								Overload	Reset CSP Transformer Breaker
								Scheduled Transformer Replacement	Transformer Replaced
								Company Contractor Contacted Underground Cable	Damaged Equipment Was Replaced and Circuit Was Restored to Normal Operation
								Fuse Cutout Failure	Fuse Cutout Was Replaced
								Tree Limb Contacted Primary	Line Fuse Replaced
								Fuse Link Failure-Weather Related	Line Fuse Replaced

The Total No. Of Customers Served Will Vary Throughout The Year Due to New Activations, Terminations Of Service Or Rearrangements of the Company's Distribution System

**FREQUENCY**=(Total No. Of Cust's Interrupted) / (Total No. Of Cust's Served By Feeder)

**TOTAL CUSTOMER MINUTES (CMI)**=Sum Of [((Number Of Customers Interrupted) X (Duration Of Interruption)) For Each Event]